## Claims:

- 1 1. A method to manage packet fragmentation for address translation, comprising:
- 2 receiving a plurality of packet fragments for a packet having a first address;
- translating said first address into a second address without reassembling said
- 4 packet fragments into said packet; and
- 5 sending said packet fragments using said second address.

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- 2. The method of claim 1, wherein said translating comprises:
- 2 identifying a packet fragment having a packet header, with said packet header
- 3 having a packet identifier, translation information and a packet length;
- determining whether all packet fragments for said packet have been received;
- 5 retrieving translation information from said packet header; and
- translating said first address into said second address using said translation
- 7 information.

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- 3. The method of claim 2, wherein said translation information comprises a port
- 2 number.

- 1 4. The method of claim 2, wherein each packet fragment includes a packet fragment
- 2 header having said packet identifier, a more bit and an offset value, and said determining
- 3 comprises:

- storing each packet fragment having said packet identifier and said more bit set to
- 5 a predetermined value; and
- determining whether all packet fragments for said packet have been received using said offset values.

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- 1 5. The method of claim 4, wherein each offset value represents a position for said
- 2 packet fragment in said packet, and said determining whether all packet fragments for
- 3 said packet have been received using said offset values comprises:
- 4 collecting said offset values;
- 5 retrieving said packet length; and
- determining whether all positions for said packet are filled by said collected offset
- 7 values using said packet length.

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- 6. The method of claim 2, wherein each packet fragment includes a packet fragment
- 2 header having said packet identifier, a more bit and an offset value, and said determining
- 3 comprises:
- 4 storing each packet fragment having said packet identifier and said offset value is
- 5 a value other than zero; and
- determining whether all packet fragments for said packet have been received
- 7 using said offset values.

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- The method of claim 6, wherein each offset value represents a position for said
- 2 packet fragment in said packet, and said determining whether all packet fragments for
- said packet have been received using said offset values comprises:
- 4 collecting said offset values;
- 5 retrieving said packet length; and
- determining whether all positions are filled by said collected offset values using
- 7 said packet length.
- 1 8. The method of claim 5, wherein each offset value represents a position in bytes
- 2 divided by eight for said packet fragment in said packet.
- 1 9. The method of claim 7, wherein each offset value represents a position in bytes
- 2 divided by eight for said packet fragment in said packet.
- 1 10. The method of claim 1, further comprising:
- detecting an occurrence of a terminating condition prior to receiving all of said
- 3 packet fragments for said packet; and
- 4 releasing said packet fragments in accordance with said detection.
- 1 11. A packet fragmentation manager to manage packet fragmentation for address
- 2 translation, comprising:
- a collection module for collecting and storing a plurality of packet fragments for a
- 4 packet having a first address;

- 5 a verification module for verifying all packet fragments for said packet have been 6 received; and
- a translation module for retrieving translation information from one of said packet
- 8 fragments and translating said first address into a second address using said translation
- 9 information.

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- 1 12. The packet fragmentation manager of claim 11, further comprising a
- 2 communication module for sending said packet fragments to said second address.
- 1 13. A system to manage packet fragmentation for an address translation device,
- 2 comprising:
- a source node to send packet fragments for a packet having a first address; and
- an intermediate node to receive said packet fragments and translate said first
- 5 address to a second address without reassembling said packet fragments into said packet.
- 1 14. The system of claim 13, further comprising a destination node having said second
- 2 address to receive said packet fragments and reassemble said packet fragments into said
- 3 packet.
- 1 15. A system to manage packet fragmentation for an address translation device,
- 2 comprising:
- a computer platform adapted to manage packet fragmentation;

said platform being further adapted to receive a plurality of packet fragments for a

- 5 packet having a first address, translate the first address into a second address without
- 6 reassembling said packet fragments into said packet, and send said packet fragments
- 7 using said second address.

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- 1 16. The system of claim 15, wherein said platform is further adapted to perform said
- translation by identifying a packet fragment having a packet header, with said packet
- 3 header having a packet identifier, translation information and a packet length,
- 4 determining whether all packet fragments for said packet have been received, retrieving
- 5 translation information from said packet header, and translating said first address into
- 6 said second address using said translation information.

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- 17. The system of claim 15, wherein said platform is further adapted to use offset
- 2 values from each packet fragment to determine whether all packet fragments for said
  - packet have been received by collecting said offset values, retrieving a packet length for
  - said packet, and determining whether all positions for said packet are filled by said
- 5 collected offset values using said packet length.

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- 18. An article comprising:
- 2 a storage medium;
- 3 said storage medium including stored instructions that, when executed by a
- 4 processor, result in receiving a plurality of packet fragments for a packet having a first
- 5 address, translating said first address into a second address without reassembling said

6 packet fragments into said packet, and sending said packet fragments using said second

7 address.

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- 1 19. The article of claim 18, wherein the stored instructions, when executed by a
- 2 processor, further result in said translating by identifying a packet fragment having a
- 3 packet header, with said packet header having a packet identifier, translation information
- 4 and a packet length, determining whether all packet fragments for said packet have been
- 5 received, retrieving translation information from said packet header, and translating said
- 6 first address into said second address using said translation information.

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- 1 20. The article of claim 19, wherein the stored instructions, when executed by a
- 2 processor, further result in using offset values from each packet fragment to determine
- 3 whether all packet fragments for said packet have been received by collecting said offset
- 4 values, retrieving a packet length for said packet, and determining whether all positions
- 5 for said packet are filled by said collected offset values using said packet length.

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- 1 21. The article of claim 18, wherein the stored instructions, when executed by a
- 2 processor, further result in detecting an occurrence of a terminating condition prior to
- 3 receiving all of said packet fragments for said packet, and releasing said packet fragments
- 4 in accordance with said detection.